AB 904

Zał. nr 2 MS-0043605

Raport z badań nr: *Test Report No.*:	**26634244/2020**	**Nr zamówienia:** *Order No.*:	84951191	**Strona 1 z 18** *Page **1** of **18*** Załączniki / *Annex:1*
Nr referencyjny Klienta: *Client Reference No.*:	1667435	**Data zamówienia:** *Order date*:	2020.11.04	
Zleceniodawca:** *Client***:	COM40 Sp. z o.o. Sp. K. Podkocka 4b, 63-460 Nowe Skalmierzyce			
Przedmiot badania:** *Test item***:	Storage unit			
Oznaczenie / Nr typu:** *Identification / Type No.***:	ANVIL			
Rodzaj zamówienia: *Order content*:	Safety test			
Podstawa badań: *Test specification*:	EN 16121+A1:2017[A] (excluded point 7), EN 16122:2012[A]			
Data przyjęcia: *Date of receipt*:	2020.09.30			
Nr próbki *Test sample No.*:	P/20/443			
Czas badania: *Testing period*:	2020.11.30 – 2020.12.14			
Miejsce badania: *Place of testing*:	TÜV Rheinland Polska Sp. z o.o. ul. Lutycka 11, 60-415 Poznań			
Laboratorium badawcze: *Testing laboratory*:	Laboratorium Badawcze TÜV Rheinland Polska Sp. z o.o. Oddział Poznań - Hardlines			
Wynik badania*: *Test result**:	Pass			

Opracowane / *Compiled by :*

16.12.2020 D. Jakowczyk / Junior testing specialist

Autoryzowane / *Authorized by* :

16.12.2020 Ł. Skrzypczak/ Testing sepcialist

Data *Date*	**Nazwisko/Stanowisko** *Name/Position*	**Podpis** *Signature*	**Data** *Date*	**Nazwisko/Stanowisko** *Name/Position*	**Podpis** *Signature*

Inne / *Other*:

See photo documentation in attachment 1.

Stan przedmiotu badania po dostawie:
Condition of the test item at delivery:

Przedmiot badań jest kompletny i nienaruszony
Test item complete and undamaged

*Legenda:	1 = bardzo dobrze	2 = dobrze	3 = zadowalający	4 = dostateczny	5 = niedostateczny
	P(ass)-zgodne z podstawami kontroli/wymaganiami/specyfikacją		F(ail)-niezgodny z podstawami kontroli/wymaganiami/specyfikacją	N/A = nie dotyczy	N/T = nie badano
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

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UWAGI/ REMARKS

Wyposażenie badawcze używane w czasie badań zostało wywzorcowane zgodnie z Harmonogramem wzorcowań i sprawdzeń. Wyposażenie spełnia wymagania zawarte w odpowiednich normach. Identyfikowalność używanego wyposażenia badawczego jest zapewniona przez zgodność z dyspozycjami systemu zarządzania. Szczegółowe informacje dotyczące warunków badań, wyposażenia i niepewności pomiaru są dostępne w Laboratorium Badawczym i mogą być dostarczone na żądanie.

The equipment used during the specified testing period was calibrated according to Test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the Laboratory and could be provided on request

Jak uzgodniono w umowie, dokument ten został podpisany wyłącznie w formie cyfrowej. TUV Rheinland nie sprawdziło i nie jest w stanie sprawdzić, które z wymogów prawnych lub innych odnośnych wymogów mają zastosowanie do niniejszego dokumentu. Taka weryfikacja leży w zakresie odpowiedzialności użytkownika tego dokumentu. Na życzenie Klienta TUV Rheinland może potwierdzić ważność podpisu cyfrowego za pomocą osobnego dokumentu. Wniosek taki należy skierować do Działu sprzedaży. Za taką dodatkową usługę będzie pobierana opłata środowiskowa.

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A – metoda badawcza akredytowana; P – podwykonawstwo; AP – metoda badawcza akredytowana u podwykonawcy

Wyniki badań z uwagą P są zlecane kompetentnym i zakwalifikowanym podwykonawcom i wyraźnie oznaczone w Raporcie z badań. Odchylenia od podstawy badawczej lub wymagań Klienta są wymienione w opisie metody (podstawy) badawczej w Raporcie z badań.

A – accredited method, P – subcontracted method; AP – method accredited by a subcontractor

The clauses with remark of P are subcontracted to qualified approved subcontractors and descripted under the respective test clause in the Test Report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the Test Report.

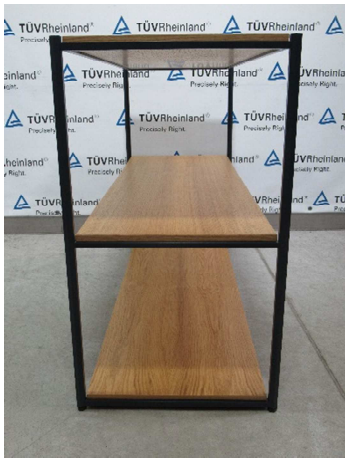
Lista użytego sprzętu badawczego
List of used test equipment

Urzadzenie pomiarowe *Test equipment*	**Numer urządzenia / ID-Nr** *Equipment No. / ID-No.*	**Nastepna kalibracja** *Next calibration*
Dimensions and weight	A/37/W/P-H.1	05.2021
	A/137/W/P-H.1	02.2022
	A/166/W/P-H.1	02.2022
Static and dynamic tests	A/154/W/P-H.1	03.2021
	E/48/S/P-H.1	03.2021
	A/68/W/P-H.1	09.2021
	E/76/S/P-H.1	03.2021
	E/81/S/P-H.1	03.2021
	E/83/S/P-H.1	03.2021
	E/212/S/P-H.1	05.2021
	E/213/S/P-H.1	06.2021
	E/254/S/P-H.1	09.2021
	E/315/S/P-H.1	04.2021
	A/2/W/P-H.1	09.2021
	E/7/S/P-H.1	03.2021
	E/36/W/P-H.1	06.2021
	E/152/S/P-H.1	03.2021
Environmental conditions	A/148/W/P-H.1	09.2021

1	**Szczegóły produktu** *Product details*	Storage unit
2	**Wymiary / waga** *Dimensions / Weight*	1122x431x759 mm/ 34,44kg
3	**Elementy badane** *Operating elements*	-
4	**Wyposażenie/Akcesoria** *Equipment / Accessories*	-
5	**Zastosowane materiały** *Used materials*	Steel, MDF
6	**Różne** *Other*	**Próbka(-i) testowa(-e), jak również informacje o próbce, opis, szczegóły dotyczące produktu i jego przeznaczenia zostały dostarczone przez klienta.** *Test sample(s), as well sample information, description, product details and intended usage was provided by customer.*
7	**Sposób dostarczenia próbek:** *Test sample obtaining:*	□ 1) **pobrane przez Próbobiorcę Laboratorium TÜV Rheinland Polska** / Collected by Sampler - Laboratory TÜV Rheinland ☒ 2) **pobrane przez Zleceniodawcę*:** / Collected by Principal*: □ 2.1) **dostarczone przez Próbobiorcę Laboratorium TÜV Rheinland Polska** / Delivered by Sampler Laboratory TÜV Rheinland ☒ 2.2) **osobiście**/personal receipt * □ 2.3) **pocztą/kurierem** by post/courier * □ 3) **inne**/other ***Za reprezentatywność i przygotowanie próbek odpowiada Zleceniodawca w przypadku samodzielnego ich pobierania** *In the case when the samples are collected by the Principal, they are responsible for the samples representativeness*

Fig. 1

Fig. 2



PN-EN 16121+A1:2017[A]

5 Safety requirements		
5.1 Principles of safety requirements		
5.1.1 General		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
Safety requirements are based upon the knowledge that storage furniture and its parts are likely to cause injury only when they are heavy and fall through a significant distance. This is possible if floor standing units overbalance, wall or screen mounted units become detached, or heavy parts become detached from units. Therefore, the tests contained in Table 4 are only considered to affect safety when: — the height of the centre of gravity of the unit, or any part, is > 650 mm above the floor and the total mass is > 10 kg, or — when the potential energy (3.9) of the unit, or any part, is > 65 Nm and the height of the centre of gravity of the unit, or any part, is ≤ 650 mm.	The standard assumptions included. See further section of the report.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**
5.1.2 Determination of centre of gravity		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
The centre of gravity of a component or unit shall be taken as the geometric centre of that unit, except in the case of extension elements, where the geometric centre of the usable volume shall be used. The height of the centre of gravity above the floor shall be measured for storage furniture or their components when installed according to the manufacturer's instructions. Levelling devices shall be set at their middle position. Height adjustable components shall be placed in their highest position. All wall or top hanging units, or components thereof, are considered to have their centre of gravity more than 650 mm above the floor.	The standard assumptions included.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**
5.1.3 Determination of total mass		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
The total mass is the mass of the component or unit plus the mass supported by it. Unless the component is conspicuously and durably marked by the manufacturer with a maximum load, the mass of the contents shall be determined according to Table 1, which specifies mass per unit area for shelves and the mass per unit volume for extension elements, baskets and trays, etc. The volume of fixed baskets and trays shall be taken as the volume contained below their top edge. The volume of extension elements shall be taken as the area of its bottom multiplied by the clear height (3.6).	The standard assumptions included.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**

Table 1 — Load to determine total mass and load applied to all components other than those undergoing test, excluding stability tests

Part	Unit	Load
Horizontal surfaces, tops, shelves, door baskets, etc.	kg/dm²	1,5
Extension elements, trays and baskets	kg/dm³	0,2
Suspended pocket files	kg/dm [a]	4
Clothes rails	kg/dm	4
[a] Measured perpendicular to the plane of the pocket files.		

5.2 General safety requirements

Wymagania / *requirements*	Spostrzeżenia / *remarks*	
The storage units shall be so designed as to minimise the risk of injury to the user. All parts of the storage unit with which the user comes into contact, during intended use, shall be so designed that physical injury and damage are avoided. This requirement is met when: a) the accessible parts are rounded or chamfered, and all other edges accessible during intended use are free from burrs and sharp edges; b) feet of tubular components shall be capped or otherwise closed; c) open ends of tubular components, accessible during intended use, shall be capped or otherwise closed. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall not be possible for any load bearing part of the storage unit to come loose unintentionally. All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use. If it can cause injury, all roll fronts and doors sliding vertically including those constructed from hinged elements shall not move by themselves from any position higher than 200 mm measured from the closed position. In order to avoid pinching points for feet, the safe height for vertically moving units shall be at least 100 mm from the floor. Subject to the conditions contained within the general safety principles (5.1.1), all extension elements and trays shall not become detached from the unit when subjected to one horizontal pull force of 200 N applied to the handle of the loaded extension element/tray. The extension element/tray shall be loaded in accordance with Table 1, unless the component is conspicuously and durably marked by the manufacturer with a maximum load. In this case the component shall be loaded with the stated maximum load.	Product fulfills the general safety requirements.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**

5.3 Sheer and squeeze points		
5.3.1 Shear and squeeze points when setting up and folding		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
Unless 5.3.2 or 5.3.3 are applicable, shear and squeeze points that are created only during setting up and folding are acceptable, because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately upon experiencing pain.	Not applicable	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**
5.3.2 Shear and squeeze points under influence of powered mechanism		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
With the exception of the operation of doors, flaps and extension elements, including their hardware, there shall be no shear and squeeze points created by parts of the storage unit operated by powered mechanisms, i.e. springs, gas lifts and motorised systems.	Not applicable	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**
5.3.3 Shear and squeeze points during use		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
With the exception of operation of doors, flaps and extension elements, including their hardware, there shall be no shear and squeeze points created by forces applied during normal use (see Table 2 and Table 3).	There were no shear and squeeze points created by forces applied during normal use.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**
5.4 Hinged horizontal lids		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
Horizontal lids that are 1 000 mm or less from the floor and weigh 0,25 kg or more, that are hinged, shall be provided with lid-support mechanisms to prevent sudden collapse or dropping of the lid. The lid-support mechanism shall support the lid so that at no position in the arc of travel of the lid from within 50 mm of the fully closed position through an arc not to exceed 60° from the fully closed position shall it drop more than 12 mm under the influence of its own mass, except in the last 50 mm of travel. The test shall be carried out in accordance with EN 71-1:2011, 8.31.2. The lid-support mechanism shall confirm to this requirement before and after being tested to the durability of flaps test, as described in Table 5.	Not applicable	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**
5.5 Vertical glass components		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
This requirement is not applicable if the glass fulfils the fragmentation test requirements of EN 12150-1:2000, Clause 8, or has a mode of breakage (β) according to EN 12600:2002, Type B or Type C. Any external, vertical glass component ≥ 0,1 m^2 in area, where the smallest dimension is greater than or equal to 200 mm and any part of which is less than 900 mm above the floor, shall not break or become detached, when impacted once in accordance with EN 14072:2003, Clause 5, with a drop height of 70 mm. The impact point shall be on the most adverse corner 100 mm from the edge of the glass.	Not applicable	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**

5.6 Stability

Wymagania / *requirements*	Spostrzeżenia / *remarks*	
The requirements for stability only apply to units where the height to the top of the unit is 650 mm or more above the floor level, and when the potential energy (3.9), exceeds the value 65. Where specified the unit shall be loaded in accordance with the loads specified in Table 2. When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 0,5, but the load shall not exceed the value calculated using Table 2. Storage units shall be tested for stability according to Table 3, and following the order listed in Table 3. The stability requirements are fulfilled when, tested in accordance with Table 3, the storage unit does not overturn. If the storage unit is prevented from overturning by an open extension element, open door or open flap the stability requirements are not fulfilled.	The standard assumptions included. Product didn't overturn during testing.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**

Table 2 — Loads for stability testing

Component	Load
All horizontal storage areas, including shelves, bottoms, tops and flaps	0,325 kg/dm²
Extension elements, trays and baskets with clear height (3.6), H,≤ 1 dm:	0,2 kg/dm³
Extension elements, trays and baskets with clear height (3.6), H, between 1 dm and 2,5 dm:	(0,266 7 − 0,066 7H) kg/dm³ (H in dm)
Extension elements, trays and baskets with clear height (3.6), H,≥ 2,5 dm:	0,1 kg/dm³
Hanging rails	2 kg/dm
Suspended filing pockets	1,25 kg/dm

Table 3 — Stability tests

Test No	Test	Reference	Loading	Force
5.6.1	Doors, extension elements and flaps closed, all storage units unloaded - Units that are, or can be, adjusted to a height of 1000 mm or less	EN 16122:2012, 11.2.1	Vertical force, N	750
5.6.2	Doors, extension elements and flaps closed, all storage units unloaded - Units that are, or can be, adjusted to a height of more than 1 000 mm	EN 16122:2012, 11.2.2	Vertical force, N Outward force, N	350 50
5.6.3	All storage areas unloaded and all doors, extension elements and flaps open	EN 16122:2012, 11.4.1	-	-
5.6.4	All storage areas unloaded with overturning load	EN 16122:2012, 11.4.2	Vertical force, N	100
5.6.5	All storage areas loaded with overturning load	EN 16122:2012, 11.4.3	Vertical force, N	20 % of total mass (3.5) of the unit but not greater than 300 N
5.6.6	Doors, extension elements and flaps closed and locked	EN 16122:2012, 11.5	Outward force, N	100
5.6.7	Dynamic stability test for units with castors [a]	EN 16122:2012, 11.6	-	-

[a] The test shall be carried out in accordance with EN 16122:2012, 11.6, except that the stops shall be 12 mm high with square edges

5.7 Structural safety

5.7.1 Structural safety tests

Wymagania / *requirements*	Spostrzeżenia / *remarks*	
The tests contained in Table 4 shall only be carried out when the principles of safety requirements (5.1.1) are met. Storage units shall be tested according to Table 4 and following the order listed in Table 4. Where specified in EN 16122:2012 storage units and their components shall be loaded in accordance with Table 1. When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 1,2.	The standard assumptions included. See further section of the report.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**

Table 4 — Safety tests

Test No	Test	Reference	Loading	Requirement
5.7.1.1	Static load test for tops and bottoms	EN 16122:2012, 6.2.2	Force, N Cycles	750 10
5.7.1.2	Shelf retention test – horizontal outward	EN 16122:2012, 6.1.2	Force, N	50 % of unloaded shelf weight
5.7.1.3	Shelf retention test – vertical downward	EN 16122:2012, 6.1.3	Force, N	100
5.7.1.4	Strength of shelf supports	EN 16122:2012, 6.1.5	Cycles Mass per unit area, kg/dm² steel impact plate, EN 16122:2012, Table 1	10 0,65 1
5.7.1.5	Vertical load on pivoted doors	EN 16122:2012, 7.1.2	Mass, kg 10 cycles	30
5.7.1.6	Horizontal load on pivoted doors [a]	EN 16122:2012, 7.1.3	Force, N 10 cycles	60
5.7.1.7	Strength of bottom-hinged flaps	EN 16122:2012, 7.3.1	Force, N Cycles	200 10
5.7.1.8	Strength of extension elements [b]	EN 16122:2012, 7.5.2	Force, N Cycles	200 10
5.7.1.9	Slam shut and open of extension elements [c]	EN 16122:2012, 7.5.4	Velocity, m/s, at calibration points Slam open 5 kg Slam shut 35 kg Factor K Mass in drawer (marbles)	1,30 1,00 2,5 See Table 1.
5.7.1.10	Interlock test	EN 16122:2012, 7.5.6	Force, N Cycles	200 10
5.7.1.11	Test for structure and underframes	EN 16122:2012, 6.4.1	Force, N Cycles	350 10
5.7.1.12	Test for unit with castors or wheels [d]	EN 16122:2012, 6.4.3	Cycles	2 000
5.7.1.13	Overload test	EN 16122:2012, 10.1.3	Mass per unit area, kg/dm²	2,5
5.7.1.14	Dislodgement test	EN 16122:2012, 10.1.4	Force, N	100
5.7.1.15	Units supported by the floor	EN 16122:2012, 10.2	Force, N	200

[a] This test shall only be applied to doors with an opening angle less than or equal to 135°.

[b] The extension element shall be loaded in accordance with Table 1.

[c] For safety tests only the slam open test shall be performed. Table 5 contains requirements for the slam shut test.

[d] This test shall be performed on a horizontal, smooth steel surface.

5.7.1.1 Static load test for tops and bottoms		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ P ☐ F ☐ N/A ☐ N/T
	After testing in accordance with PN-EN 16122: 2012 p. 6.2.2, no damage was observed.	
5.7.1.2 Shelf retention test – horizontal outward		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ P ☐ F ☐ N/A ☐ N/T
	After testing in accordance with PN-EN 16122: 2012 p. 6.1.2, no damage was observed.	
5.7.1.3 Shelf retention test – vertical downward		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ P ☐ F ☐ N/A ☐ N/T
	After testing in accordance with PN-EN 16122: 2012 p. 6.1.3, no damage was observed.	
5.7.1.4 Strength of shelf supports		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ P ☐ F ☐ N/A ☐ N/T
	After testing in accordance with PN-EN 16122: 2012 p. 6.1.5, no damage was observed.	
5.7.1.5 Vertical load on pivoted doors		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
5.7.1.6 Horizontal load on pivoted doors		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
5.7.1.7 Strength of bottom-hinged flaps		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
5.7.1.8 Strength of extension elements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
5.7.1.9 Slam shut and open of extension elements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
5.7.1.10 Interlock test		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

5.7.1.11 Test for structure and underframes		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**
	Product was not damaged.	
5.7.1.12 Test for unit with castors or wheels		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**
	Not applicable	
5.7.1.13 Overload test		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**
	Not applicable	
5.7.1.14 Dislodgement test		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ **P** ☐ **F** ☒ **N/A** ☐ **N/T**
	Not applicable	
5.7.1.15 Units supported by the floor		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**
	Product was not damaged.	
5.7.2 Structural safety requirements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
The structural safety requirements are fulfilled when after testing in accordance with Table 4: a) there are no fractures of any member, joint or component; b) units attached to the structure of the building shall remain attached and carry the test load; c) the storage unit fulfils the stability requirements (5.6).	. Product was not damaged.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**
6 Strength and durability		
6.1 General		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	
When choosing the loads and cycles for each test, this shall be done with due respect to the end use of the product, see Annex C - Guidance of test severity in relation to application. It shall be noted that some end uses may be covered by more than one requirement depending on the severity of the expected use, e.g. kindergarten, barracks, schools, hotels. Storage units shall be tested according to Table 5 and following the order listed in Table 5. Where specified in EN 16122, storage units and their components shall be loaded in accordance with Table 1. When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 1,2.	Level of test severity in relation to applications: 1 (general use). See further section of the report.	☒ **P** ☐ **F** ☐ **N/A** ☐ **N/T**

Table 5 — Strength & durability tests

Test No	Test	Reference	Loading	Test Severity	
				1	2
6.1.1	Strength of clothes rail supports	EN 16122:2012, 6.3.1	Mass per unit length, kg/dm Time	4.0 1 h	4.0 1 h
6.1.2	Strength of coat hooks	EN 16122:2012, 9.1	Force per hook, N Cycles	40 10	150 10
6.1.3	Durability of pivoted doors	EN 16122:2012, 7.1.5	Cycles	40 000	80 000
6.1.4	Slam shut test of pivoted doors	EN 16122:2012, 7.1.4	Mass, m_2, kg Cycles	3 10	4 10
6.1.5	Slam shut/open of sliding doors and horizontal roll fronts	EN 16122:2012, 7.2.2	Mass, m_2, kg Cycles	4 10	6 10
6.1.6	Durability of sliding doors and horizontal roll fronts	EN 16122:2012, 7.2.3	Cycles – sliding doors Cycles-roll fronts	20 000 10 000	40 000 20 000
6.1.7	Durability of flaps	EN 16122:2012, 7.3.2	Cycles	10 000	20 000
6.1.8	Durability of vertical roll fronts	EN 16122:2012, 7.4.2	Cycles	10 000	20 000
6.1.9	Durability of extension elements	EN 16122:2012, 7.5.3	Cycles – extension elements Cycles – trays	40 000 20 000	80 000 40 000
6.1.10	Slam shut and open of extension elements [a]	EN 16122:2012, 7.5.4	Velocity, m/s, at calibration points Slam open 5 kg Slam shut 35 kg Factor K	1,30 1,00 2,5	1,30 1,00 2,5
6.1.11	Displacement of extension element bottoms	EN 16122:2012, 7.5.5	Force, N Cycles	60 10	70 10
6.1.12	Strength test for locking and latching mechanisms for extension elements	EN 16122:2012, 7.6.2	Force, N Cycles	200 10	200 10
6.1.13	Strength test for locking and latching mechanisms for doors, flaps and roll fronts	EN 16122:2012, 7.6.3	Force, N Cycles	200 10	200 10
6.1.14	Drop test	EN 16122:2012, 6.4.2	Drop height, mm	-	50
6.1.15	Deflection of shelves	EN 16122:2012, 6.1.4	Mass per unit area, kg/dm^2	1,5	2,0
6.1.16	Dislodgement of clothes rails	EN 16122:2012, 6.3.2	Mass per unit length, kg/dm	5	5
6.1.17	Drop test for trays	EN 16122:2012, 8,3	Drop height, mm Cycles	350 10	700 10
6.1.18	Sustained load test for trays	EN 16122:2012, 8.2	Kg/dm^3	0,65	1,0

[a] For strength and durability tests, only the slam shut test shall be performed. Table 4 contains requirements for the slam open test.

6.1.1 Strength of clothes rail supports		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.2 Strength of coat hooks		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.3 Durability of pivoted doors		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.4 Slam shut test of pivoted doors		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.5 Slam shut/open of sliding doors and horizontal roll fronts		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.6 Durability of sliding doors and horizontal roll fronts		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.7 Durability of flaps		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.8 Durability of vertical roll fronts		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.9 Durability of extension elements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.10 Slam shut and open of extension elements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	

6.1.11 Displacement of extension element bottoms		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.1.12 Strength test for locking and latching mechanisms for extension elements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.1.13 Strength test for locking and latching mechanisms for doors, flaps and roll fronts		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.1.14 Drop test		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.1.15 Deflection of shelves		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ P ☐ F ☐ N/A ☐ N/T
	The measured deflection of shelves is d_d = 5,0 mm. 5,0 mm is 4,5% distance between the supports. 4,5<5	
6.1.16 Dislodgement of clothes rails		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.1.17 Drop test for trays		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.1.18 Sustained load test for trays		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☐ P ☐ F ☒ N/A ☐ N/T
	Not applicable	
6.2 Strength and durability requirements		
Wymagania / *requirements*	Spostrzeżenia / *remarks*	☒ P ☐ F ☐ N/A ☐ N/T
The strength and durability requirements are fulfilled when after testing in accordance with Table 5: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) the storage unit fulfils the stability requirements (5.6); d) the storage unit fulfils its functions after removal of the test loads; e) there shall be no deflection of shelves that exceeds 0,5 % of the span of the shelf when tested in accordance with test no. 6.1.15 (see Table 5).	Product was not damaged.	

Przedstawione wyniki badań odnoszą się wyłącznie do otrzymanej/ych i badanej/-ych próbki/-ek. Niepewność rozszerzona pomiaru dla k=2 wyznaczona jest dla poziomu ufności 0,95

The presented test results refers only to received and tested sample/-s. The expanded uncertainty of measurement for k=2 is determined for a confidence level of 0,95.

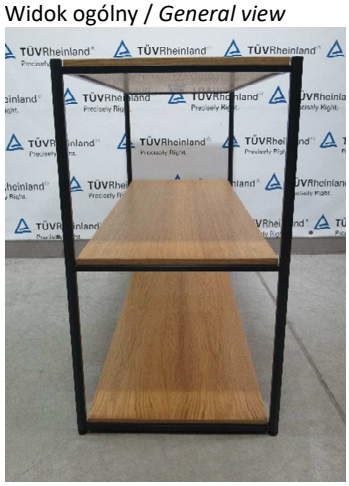
Załącznik nr 1 / *Annex No. 1*

Dokumentacja fotograficzna

Photo documentation

Fotografia / *Photo* 1
Widok ogólny / *General view*

Fotografia / *Photo* 2
Widok ogólny / *General view*



Fotografia / *Photo* 3
Widok ogólny / *General view*

Fotografia / *Photo* 4
Widok ogólny / *General view*

Fotografia / *Photo* 5
Szczegóły konstrukcyjne / *Construction details*

Fotografia / *Photo* 6
Szczegóły konstrukcyjne / *Construction details*

Fotografia / *Photo* 7
Szczegóły konstrukcyjne / *Construction details*

Fotografia / *Photo* 8
Szczegóły konstrukcyjne / *Construction details*

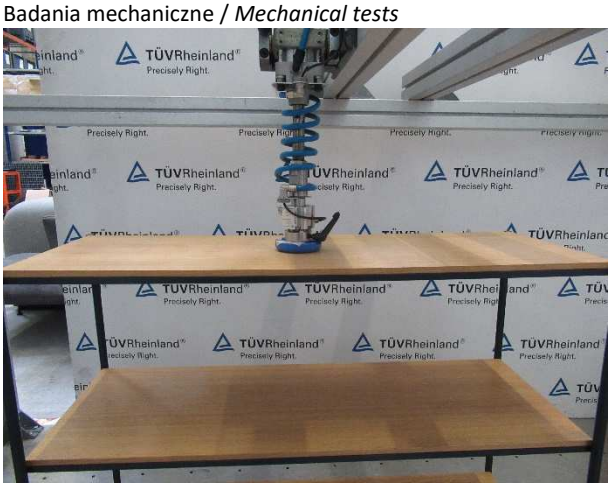
Fotografia / *Photo* 9
Szczegóły konstrukcyjne / *Construction details*

Fotografia / *Photo* 10
Szczegóły konstrukcyjne / *Construction details*

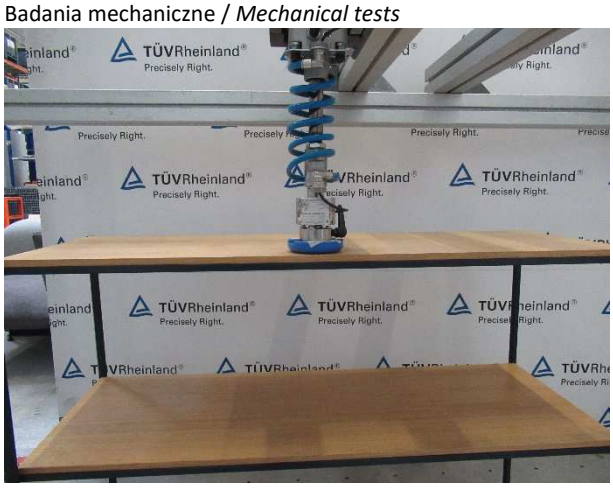
Fotografia / *Photo* 14
Badania mechaniczne / *Mechanical tests*

Fotografia / *Photo* 14
Badania mechaniczne / *Mechanical tests*

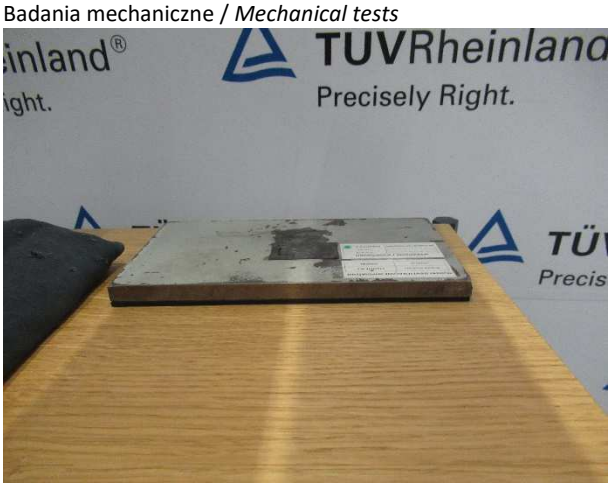
Fotografia / *Photo* 14
Badania mechaniczne / *Mechanical tests*



Fotografia / *Photo* 14
Badania mechaniczne / *Mechanical tests*



Fotografia / *Photo* 15
Badania mechaniczne / *Mechanical tests*



Fotografia / *Photo* 16
Badania mechaniczne / *Mechanical tests*

Fotografia / *Photo* 17
Badania mechaniczne / *Mechanical tests*

Koniec raportu z badań
End of Test Report